



## Certificate of Analysis

**Customer:** Ravenol Polska Spolka z o.o.  
Ul. Chojnicka 61  
83-200 Starogard Gdański  
Poland

**Product:** RAVENOL VMP SAE 5W-30

**Article Number:** 1111122

**Customs Tariff Number:** 34039900

**Batch No.:** 18401149  
**Production Date:** 09.10.2018  
**Shelflife:** 3 years

### Test Values:

Characteristics	unit	Typical	Result	test according to
<b>Appearance</b>		Clear and bright	pass	visual
<b>*Colour</b>		<3,5	3.0	DIN ISO 2049(2001-06)
<b>*Density</b>	at 15 °C	kg/m <sup>3</sup>	840 – 860	855,4
<b>*Viscosity</b>	at -30°C	mPa.s	<6600	5164
<b>*Viscosity</b>	at 40 °C	mm <sup>2</sup> /s	50 – 90	73,56
<b>*Viscosity</b>	at 100 °C	mm <sup>2</sup> /s	9,3-<12,5	12,10
<b>*Viscosity index</b>			>120	162
<b>*Pourpoint</b>		°C	<-33	-57
<b>Flashpoint</b>	COC	°C	>200	238
<b>*Volatility</b>		%	< 18	8,0
<b>*Base number (BN)</b>	mg KOH/g		> 3	6,3

\*Laboratory accredited acc. to DIN EN ISO/IEC 17025:2005 (D-PL-18751-01-00)

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